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SEQUENCE LISTING

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Thr Trp Lys Leu Asn Met Leu Leu Asn Asn Tyr Trp Val Asn Glu Glu 105

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Ala Thr Tyr Gln Asn Met Trp Asp Thr Ala Arg Ala Met Ala Arg Gly 130 135

Asn Leu Thr Val Ile Asn Ala Tyr Ile Lys Lys Val Val Glu Ile Phe 145 150

Ala Ile Lys Asn Leu Ser Met His Leu Lys Glu Leu Glu Lys Gln Lys 165 170 175

Gln Thr Asn Pro Gln Ser Ser Arg Gln Lys Glu Ile Met Lys Ser Arg 180 185 190

Ala Asp Gln Asn Glu Thr Asp Lys Lys Thr Ile Gln Arg Val Asn Glu 195 200 205

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Ala Ala Leu Thr Lys Lys 225 230

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<211> 149

<212> PRT

<213> Homo sapien

<400> 144

Met Tyr Gln Leu Arg Leu Val Thr Leu Phe Gln Ile His Met Lys Gly 1 5 10 15

Ala Ile Pro Leu Lys Leu Phe Thr Asp Val Leu Cys Lys Arg Trp Ser 20 25 30

Thr Lys Glu Thr His Gln Met Gly Glu Ala Asp Pro Gly His Ala 35 40 45

Gln Arg Glu Gln Leu Gly Thr Trp Ala Gly Ile Gly Lys Lys Val Val 50 55 60

Gln Arg Ala Arg Pro Gly Pro Ala Leu Ser Gly Gly Ser Gly Gly Leu 65 70 75 80

Cys Leu Ser Ala Leu Pro Pro Gly Leu Pro Pro Met Thr Val His Pro 85 90 95

Cys Arg Asn His Leu Arg Pro Pro Thr Pro Thr Pro Ala Pro Leu Gly
100 105 110

Ser Tyr His Leu Pro Phe Pro Pro Ser Ser Leu Ser Pro Thr Lys Ala 115 120 125 Ser Leu Cys Phe Leu Glu Ala Ser Ile Thr Gly Ser Cys Pro Gly Pro 130 135 140

Ser Trp Gly Thr Arg 145

<210> 145

<211> 31

<212> PRT

<213> Homo sapien

<400> 145

Met Gly Trp Asn Glu Glu Glu Gln Ser Cys Pro Pro Val Pro Gly Gly 1 5 10 15

Thr Val Ser Arg Lys Ile His Thr Tyr Leu Lys Leu Gln Lys Gly 20 25 30

<210> 146

<211> 106

<212> PRT

<213> Homo sapien

<400> 146

Cys Gly Trp Trp Thr Gly Met Pro Gly Ser Ser Pro Gly Ser Leu Leu 1 5 10 15

Pro Ser Asn Arg Leu Ser Leu Val Pro Leu Val Pro Ser Ala Ser Met 20 25 30

Thr Arg Leu Met Arg Ser Arg Thr Ala Ser Gly Ser Ser Val Thr Ser 35 40 45

Leu Asp Gly Thr Arg Ser Arg Ser His Thr Ser Glu Gly Thr Arg Ser 50 55 60

Arg Ser His Thr Ser Glu Gly Thr Arg Ser Arg Ser His Thr Ser Glu 65 70 75 80

Gly Ala His Leu Asp Ile Thr Pro Asn Ser Gly Ala Ala Gly Asn Ser 85 90 95

Ala Gly Pro Lys Ser Met Glu Val Ser Cys 100 105

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<210> 147
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<211> 72

<212> PRT

<213> Homo sapien

<400> 147

Met Ser His Gly Ser Gly Trp Gln Cys Tyr Ser Pro Met Asn Thr Asp 10

His Ser Ser Asn Thr Gly Asp Trp Ser His Thr Ala Thr Phe Leu Ser

Arg Gln Arg His Lys Thr Arg Lys Asn Arg Thr Thr Leu Arg Ala Val

Met Trp Glu Cys Gly Pro Ser Tyr Asn Thr Gln His Gln Asn Trp Thr

Leu His Leu Lys Gly Phe Lys Thr 70

<210> 148 <211> 24

<212> PRT

<213> Homo sapien

<400> 148

Met Glu Gly Pro Thr Asn Arg Ser Ser Leu Glu Pro Pro Glu Glu Ala 10

Gln Pro Ser Gln Gln Phe Gly Arg 20

<210> 149

<211> 70

<212> PRT

<213> Homo sapien

<400> 149

Met Leu Asp Leu Leu Ile Val Phe Arg Ile Lys Ser Lys Leu Leu Lys 10

Met Ala Phe His Asp Leu Val Ser Pro His Gln Asn Ala His Thr Met 20 25

Leu Leu Thr Pro Ser Gln Leu Trp Leu Pro Ser Thr Cys Ser Ser

Gln Ala Ser Thr Ser Phe Leu Val Ser Ala Val Leu Leu Ser Pro Pro 50 55 60

Ser Leu Leu Ser Pro Gly 65 70

<210> 150

<211> 46

<212> PRT

<213> Homo sapien

<400> 150

Met Ser Thr Cys Phe Leu Ala Ser His Gly Asn Ser Cys Leu Leu Cys 1 5 10 15

Ser Phe Ser Ile Ile Ser Leu Leu Leu Ala Ser Lys Glu Ser Phe Val 20 25 30

Gly Ile Leu Pro Ser Ser Ser Tyr Leu Leu Cys Lys Ile Thr 35 40 45

<210> 151

<211> 40

<212> PRT

<213> Homo sapien

<400> 151

Met Glu Arg Phe Lys Glu Arg Gly Arg Gly His Gly Ala Phe Met Pro 1 5 10 15

Ser Pro Gly Thr Leu Pro Ser Arg Asn Leu Gln Thr Val Gln Leu Ser 20 25 30

Gly Ser Ser Leu Asn Leu Val Ile 35 40

<210> 152

<211> 32

<212> PRT

<213> Homo sapien

<400> 152

Met Leu Gly Ser Glu Cys Leu Leu Phe Met His Leu Leu Lys Lys Leu 1 5 10 15

Leu Gln Gly Asn Lys Lys Arg Ile Gln Glu Arg Gly His His Gly Leu

<210> 153

<211> 956 <212> PRT

<213> Homo sapien

<400> 153

Met Lys Ala Glu Ile Lys Val Phe Phe Glu Thr Asn Glu Asn Lys Asp

Thr Thr Tyr Gln Asn Leu Trp Asp Thr Phe Lys Ala Val Cys Arg Gly

Lys Phe Ile Ala Leu Asn Ala His Lys Arg Lys Gln Glu Arg Ser Lys 40

Ile Asp Thr Leu Thr Ser Gln Leu Lys Glu Leu Glu Lys Gln Glu Gln 50 55

Thr His Ser Lys Ala Ser Arg Arg Gln Glu Ile Thr Lys Ile Arg Ala 75 70

Glu Leu Lys Glu Ile Gln Thr Gln Lys Thr Leu Gln Lys Ile Asn Glu

Ser Arg Ser Trp Phe Phe Glu Arg Ile Asn Lys Ile Asp Arg Ser Leu 100

Ala Arg Leu Ile Lys Lys Lys Arg Glu Lys Asn Gln Ile Asp Thr Ile 115 120

Lys Asn Asp Lys Gly Asp Ile Thr Thr Asp Pro Thr Glu Ile Gln Thr 130 135

Thr Ile Arg Glu Tyr Tyr Lys His Leu Tyr Ala Asn Lys Leu Glu Asn 145 150

Leu Glu Glu Met Asp Lys Phe Leu Asp Thr Tyr Thr Leu Pro Arg Leu 165 170

Asn Gln Glu Glu Val Glu Ser Leu Asn Arg Pro Ile Thr Gly Ala Glu 180 185

- Ile Val Ala Ile Ile Asn Ser Leu Pro Thr Lys Lys Ser Pro Gly Pro 195 200 205
- Asp Gly Phe Thr Ala Glu Phe Tyr Gln Ser Trp Ala Glu Thr Gln Pro 210 215 220
- Lys Lys Glu Asn Phe Arg Pro Ile Ser Leu Met Asn Ile Asp Ala Lys 225 230 235 240
- Ile Leu Asn Lys Ile Leu Ala Lys Arg Ile Gln Gln His Ile Lys Lys 245 250 255
- Leu Ile His His Asp Gln Val Gly Phe Ile Pro Gly Met Gln Gly Trp 260 265 270
- Phe Asn Ile Arg Lys Ser Ile Asn Val Thr Gln His Ile Asn Arg Ala 275 280 285
- Lys Asp Lys Asn His Met Ile Ile Ser Ile Asp Ala Glu Lys Ala Phe 290 295 300
- Asp Lys Ile Gln Gln Pro Phe Met Leu Lys Thr Leu Asn Lys Leu Gly 305 310 315 320
- Ile Asp Gly Thr Tyr Phe Lys Ile Ile Arg Ala Ile Tyr Asp Asn Pro 325 330 335
- Thr Ala Asn Ile Ile Leu Asn Gly Gln Lys Leu Glu Ala Phe Pro Leu 340 345 350
- Lys Thr Gly Thr Arg Gln Gly Cys Pro Leu Ser Pro Leu Leu Phe Asn 355 360 365
- Ile Val Leu Glu Val Leu Ala Arg Ala Ile Arg Gln Glu Lys Glu Ile 370 375 380
- Lys Gly Ile Gln Leu Gly Lys Glu Glu Val Lys Leu Ser Leu Phe Ala 385 390 395 400
- Asp Asn Met Ile Val Tyr Leu Glu Asn Pro Ile Val Ser Ala Gln Asn 405 410 415
- Leu Leu Lys Leu Ile Ser Asn Phe Ser Lys Val Ser Gly Tyr Lys Ile 420 425 430

- Asn Val Gln Lys Ser Gln Ala Phe Leu Tyr Thr Asn Asn Arg Gln Thr 435 440 445
- Glu Ser Gln Ile Met Ser Gln Leu Pro Phe Thr Ile Ala Ser Lys Arg 450 455 460
- Ile Lys Tyr Leu Gly Ile Gln Leu Thr Arg Asp Val Lys Asp Leu Phe 465 470 475 480
- Lys Glu Asn Tyr Lys Pro Leu Leu Lys Glu Ile Lys Glu Asp Thr Asn \$485\$
- Lys Trp Lys Asn Ile Pro Cys Ser Gly Glu Gly Arg Ile Asn Ile Val 500 505 510
- Lys Met Ala Ile Leu Pro Lys Glu Leu Glu Lys Thr Thr Leu Lys Phe 515 520 525
- Ile Trp Asn Gln Lys Arg Ala His Ile Ala Lys Ser Ile Leu Asn Gln 530 540
- Lys Asn Lys Ala Gly Gly Ile Thr Leu Pro Asp Phe Lys Leu Tyr Tyr 545 550 555 560
- Lys Ala Thr Val Thr Lys Thr Ala Trp Tyr Trp Tyr Gln Asn Arg Asp 565 570 575
- Ile Asp Gln Trp Asn Arg Thr Glu Pro Ser Glu Ile Thr Gln His Ile 580 585 590
- Tyr Ser Tyr Leu Ile Phe Asp Lys Pro Glu Lys Asn Lys Gln Trp Gly 595 600 605
- Lys Asp Ser Leu Phe Asn Lys Trp Cys Trp Glu Asn Trp Leu Ala Ile 610 615 620
- Cys Arg Lys Leu Lys Leu Asp Pro Phe Leu Thr Pro Tyr Thr Lys Met 625 630 635
- Asn Ser Arg Trp Ile Lys Asp Leu Asn Val Arg Pro Lys Thr Ile Lys 645 650 655
- Thr Leu Glu Glu Asn Leu Gly Ile Thr Ile Gln Asp Ile Gly Met Gly 660 665 670

- Lys Asp Phe Met Ser Lys Thr Pro Lys Ala Met Ala Thr Lys Asp Lys 675 680 685
- Ile Asp Lys Trp Asp Leu Val Lys Leu Lys Ser Phe Cys Thr Ala Lys 690 695 700
- Glu Thr Thr Ile Arg Val Asn Arg Gln Pro Thr Lys Trp Glu Lys Ile 705 710 715 720
- Phe Ala Thr Tyr Ser Ser Asp Lys Gly Leu Ile Ser Arg Ile Tyr Asn 725 730 735
- Glu Leu Lys Gln Ile Tyr Lys Lys Lys Thr Asn Asn Pro Ile Lys Lys 740 745 750
- Trp Ala Lys Asp Met Asn Arg His Phe Ser Lys Glu Asp Ile Tyr Ala 755 760 765
- Ala Lys Lys His Met Lys Lys Cys Ser Ser Ser Leu Ala Ile Arg Glu 770 785
- Met Gln Ile Lys Thr Thr Met Arg Tyr His Leu Thr Pro Val Arg Met 785 790 795 800
- Ala Ile Ile Lys Lys Ser Gly Asn Asn Arg Cys Trp Arg Gly Cys Gly 805 810 815
- Glu Thr Gly Thr Leu Leu His Cys Trp Trp Asp Cys Lys Leu Ala Gln 820 825 830
- Pro Leu Trp Lys Ser Val Trp Arg Phe Leu Arg Asp Leu Glu Leu Glu 835 $840 \ \ 845$
- Ile Pro Phe Asp Pro Ala Ile Pro Leu Leu Gly Ile Tyr Pro Lys Asp 850 860
- Tyr Lys Ser Cys Cys Tyr Lys Asp Thr Cys Thr Arg Met Phe Ile Ala 865 870 875 880
- Ala Leu Phe Thr Ile Ala Lys Thr Trp Asn Gln Pro Lys Cys Pro Thr 885 890 895
- Ile Ile Asp Trp Ile Lys Lys Met Trp His Ile Tyr Thr Met Glu Tyr

900 905 910

Tyr Ala Ala Ile Lys Asn Asp Glu Phe Val Ser Phe Val Gly Thr Trp 915 920 925

Met Lys Leu Glu Ile Ile Ile Leu Ser Lys Leu Ser Gln Glu Gln Lys 930 935 940

Thr Thr His Arg Ile Phe Ser Leu Ile Gly Gly Asn 945 950 955

<210> 154

<211> 39

<212> PRT

<213> Homo sapien

<400> 154

Met Ile Ile Thr Ser Gln Gly Asn Phe Leu Phe Pro Leu Phe Ile Ser 1 5 10 15

Leu Leu His His Tyr Ser Gln Ser Leu Ser Leu Phe Pro Lys Glu Val 20 25 30

Phe His Gly Phe Leu Thr Asp

<210> 155

<211> 37

<212> PRT

<213> Homo sapien

<400> 155

Met Val Leu Ser Cys Tyr Ser Leu Val Thr Phe Arg Ser Ser Leu Leu $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$

Thr Lys Gly Lys Ile Ile Tyr Lys Tyr Gln Met Thr Ile Glu Leu Ser 20 25 30

Gln Leu Met Phe Phe 35

<210> 156

<211> 110

<212> PRT

<213> Homo sapien

<400> 156

Met Gly Cys His Gly Gly Ala Arg Asp Ser Cys Val Asn Arg Glu Cys

1 10 15

Gly Phe Leu Gln Arg Gly Val Trp Arg Trp Thr Ser Arg Ser Phe Trp 20 25 30

Ser Leu Arg Glu Gly Gln Gln Ser Ser Arg His Phe Met Asn His Ile 35 40 45

Leu Ala Val Ala Ala Phe Ala Ser Pro Gly Gly Trp Ser His Ala Leu 50 55 60

Ala Ala Arg Leu Arg His Pro Pro Val His Ser Val Pro Trp Pro Pro 65 70 75 80

Ala Val Gly Leu Ala Leu Phe Ser Thr Asn Asn Pro Gln Cys Ile Val 85 90 95

Met Thr Ser Ala Thr Asn Val Asp Val Ser Met Tyr His Ile 100 105 110

<210> 157

<211> 62

<212> PRT

<213> Homo sapien

<400> 157

Met Gly Ser His Phe Pro Gln Ser Arg Trp His Lys Leu His Glu Val 1 5 10 15

Ala Ala Val Pro Leu His Pro Asp Gln Ser Leu Ala Pro Gln Trp Asn 20 25 30

His Thr Pro Pro Leu Pro Glu Ala Glu Ser Leu Phe Tyr Gly Arg Ala 35 40 45

Ala Ala Leu Gly Thr Phe Leu Asn Ser Pro Val Phe His Leu 50 55 60

<210> 158

<211> 241

<212> PRT

<213> Homo sapien

<400> 158

- Glu Gly Cys Leu Trp Pro Ser Glu Ser Thr Val Ser Gly Asn Gly Ile 1 5 10 15
- Pro Glu Cys Pro Cys Cys Trp Asp Pro Pro Cys Arg Arg Ser Ser Ala 20 25 30
- Pro Cys Pro Ala Gly Ser Ser Pro Ala Leu Cys Ser Leu His Thr Gly 35 40 45
- Ala Arg Thr Leu Pro Leu Phe Gly Gly Gly Arg Pro Gln Val Tyr Ala 50 55 60
- Pro Pro Arg Pro Thr Asp Arg Leu Ala Val Pro Pro Phe Ala Gln Arg 65 70 75 80
- Glu Arg Phe His Arg Phe Gln Pro Thr Tyr Pro Tyr Leu Gln His Glu 85 90 95
- Ile Asp Leu Pro Pro Thr Ile Ser Leu Ser Asp Gly Glu Pro Pro
 100 105 110
- Pro Tyr Gln Gly Pro Cys Thr Leu Gln Leu Arg Asp Pro Glu Gln Gln 115 120 125
- Leu Glu Leu Asn Arg Glu Ser Val Arg Ala Pro Pro Asn Arg Thr Ile 130 135 140
- Phe Asp Ser Asp Leu Met Asp Ser Ala Arg Leu Gly Gly Pro Cys Pro 145 150 155 160
- Pro Ser Ser Asn Ser Gly Ile Ser Ala Thr Cys Tyr Gly Ser Gly Gly
 165 170 175
- Arg Met Glu Gly Pro Pro Pro Thr Tyr Ser Glu Val Ile Gly His Tyr 180 185 190
- Pro Gly Ser Ser Phe Gln His Gln Gln Ser Ser Gly Pro Pro Ser Leu 195 200 205
- Leu Glu Gly Thr Arg Leu His His Thr His Ile Ala Pro Leu Glu Ser 210 215 220
- Ala Ala Ile Trp Ser Lys Glu Lys Asp Lys Gln Lys Gly His Pro Leu 225 230 235 240

Leu

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<210> 159 <211> 50
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<212> PRT

<213> Homo sapien

<400> 159

Met Ile His Phe Leu Ser Phe Ser Thr Asn Asn Ala Tyr Ala Leu Asp 1 5 10 15

Leu Pro Glu Tyr Ser Trp Thr Thr Asp Leu Cys Lys Lys Leu Phe Phe 20 25 30

Leu Lys Ile Ala Ser Lys Gln Asn Gly Phe Asn Lys Leu Gln Asn Arg 35 40 45

Gln Pro 50

<210> 160

<211> 37

<212> PRT

<213> Homo sapien

<400> 160

Met Ile Cys Pro Phe Phe Leu His Ser Phe Thr Ser Ser Ser Phe Tyr 1 5 10 15

Cys Tyr Phe Leu Lys Arg Ile Asn Pro Leu Ala Val Leu Phe Arg Val 20 25 30

Phe Phe Thr Leu Phe 35

<210> 161

<211> 75

<212> PRT

<213> Homo sapien

<400> 161

Met Leu Val Lys Ser Arg Cys Leu Cys Leu Cys Pro Phe Cys Leu Gly 1 5 10 15

Leu Leu Glu Thr Asp Ala Gly Gly Ser Val Ala Pro His Cys Ser Gly

30 20 25

Tyr Val Pro Trp Ser Gln Ala Leu Leu Leu Leu Arg Ser Leu Leu Glu 40

Met Gln Asn Leu Arg Pro Asn Ser Arg Pro Met Thr Gln Ser Leu His 55

Phe Asn Arg Cys Leu Cys Asp Ser Cys Ala Gly 70

<210> 162 <211> 105 <212> PRT

<213> Homo sapien

<400> 162

Gln Met Gln Gln Gln Asn Thr Gln Lys Val Glu Ala Ser Lys Val Pro

Glu Tyr Ile Lys Lys Ala Ala Lys Lys Ala Ala Glu Phe Asn Ser Asn 25

Leu Asn Arg Glu Arg Met Glu Glu Arg Arg Ala Tyr Phe Asp Leu Gln

Thr His Val Ile Gln Val Pro Gln Gly Lys Tyr Lys Val Leu Pro Thr

Glu Arg Thr Lys Val Ser Ser Tyr Pro Val Ala Leu Ile Pro Gly Gln

Phe Gln Glu Tyr Tyr Lys Ser Ile Ala Ala Phe Ala Leu His Cys Ile 85 90

Gly Tyr Trp Ala Gly Val Ser Glu Pro 100

<210> 163

<211> 44

<212> PRT

<213> Homo sapien

<400> 163

Met Thr Pro His Cys Pro Gln Asn Arg Leu His Phe Leu Leu Ala Tyr 10

Lys Ala Asn Leu Asn Leu Thr Pro Gly Arg His Pro Ala Thr Val Thr 25

His Ile Leu Val Ile Pro Ser Thr Ile Gly Arg Leu 35

<210> 164

<211> 25

<212> PRT

<213> Homo sapien

<400> 164

Met Thr Met Trp Asn Cys Leu Leu Thr Cys Lys Val Thr His Asn Ile 5 10

Met Val Lys Phe Leu Lys Ser Asn Tyr

<210> 165 <211> 67

<212> PRT

<213> Homo sapien

<400> 165

Met Thr Gly Tyr Cys Met Trp Glu Ile Met Lys Pro Phe Ala Val Ser

Ser Pro Val Ser Phe Arg Val Ser Val Leu Ser Lys Pro Pro Cys Glu 25

Val Asn Gln Met Leu Asp Phe Pro Gln Ser His Gln Leu Pro Arg 40

Glu Arg Asp Thr Tyr Arg Thr Leu Pro Ser Ala Tyr Ser Ser Ser Ala 50 55

Pro Ser Thr

65

<210> 166

<211> 42

<212> PRT <213> Homo sapien

<400> 166

Met Leu Glu Met Ser Phe Ala Leu Pro Glu Phe Ala Lys Gly Ala His 5

Arg Lys Gln Ile Glu Lys His Pro Leu Gly Thr Ser Leu Gln Cys Leu 20 25

Leu Leu Thr Lys Phe Asn Ile Ile Asn Thr

<210> 167

<211> 47

<212> PRT <213> Homo sapien

<400> 167

Met Ala Ser Val Ala Arg Lys Tyr Ala Lys Glu Glu Val Asn Pro Ile

Ala Gly Leu Glu Asp Ser Asp Gln Thr Thr Arg Gly Leu Leu Asn Lys

Gly Arg Arg Cys Pro Cys Leu Met Gly Leu Ala Trp Gly Gly Gly 35

<210> 168

<211> 74

<212> PRT

<213> Homo sapien

<400> 168

Met Arg Phe Ser His Phe Phe Pro Val Phe Phe Ile Thr Phe Arg Lys 10

Ala Ile Leu Phe Ser Leu Tyr Thr Thr Cys Thr Leu Leu Val Gly Leu 25

Ile Pro Arg Cys Ile Asn Ile Ile Ala Phe Met Asn Gly Ile Phe Phe 35 40 45

Ile Val Phe Ser Asn Cys Leu Leu Asp Tyr Met Glu Ile Asp Phe Trp 55

His Ala Asp Ile Ser Ser Lys Lys Leu Tyr

<210> 169

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<211> 27
<212> PRT
<213> Homo sapien
<400> 169
Met Thr Lys Tyr Ser Pro Leu Pro Leu Phe Leu His Phe Ile Leu Thr
    5
                               10
Thr Ile Phe Phe Leu Ala Pro Phe Pro Leu Phe
<210> 170
<211> 54
<212> PRT
<213> Homo sapien
<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> X=any amino acid
<400> 170
Met Leu Lys Val Arg Arg Leu Lys Asn Xaa Arg Ala Thr Val Trp Leu
1
             5
                                                       15
                                   10
Pro Gly Ile Gly Lys Gln Val Met Asp Phe Ser Leu Lys Gly Glu Ile
            20
                               25
                                                   30
Ser Gly Val Gln Leu Gln His Leu Leu Leu Ile Asn Leu Ser Val Cys
Ala Ser Ser Ser Ile Glu
   50
<210> 171
<211> 14
<212> PRT
<213> Homo sapien
<400> 171
Met Pro Thr Gln Arg Gln Pro Leu Ser Ser Gln Ala Val Lys
              5
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<210> 172 <211> 42 <212> PRT

<213> Homo sapien

<400> 172

Met Ala Ala Ser Val Leu Gln Ser Arg Trp Leu Ile Val Ile Leu Val 1 5 10 15

Gln Lys Arg Ile His Thr His Thr Tyr Lys Tyr Val Ser Cys Leu Asp 20 25 30

Pro Gln Glu Phe His Val Ser Leu Tyr Leu 35 40

<210> 173

<211> 121

<212> PRT

<213> Homo sapien

<400> 173

Met Arg Thr Ser Lys Trp Ile Pro Pro Cys Lys Cys Gly Ala Gly Ala 1 5 10 15

Thr Arg His Cys Ser Gly His Ala Ser Lys Thr Gln Ala Glu Gly Ala 20 25 30

Ala His His Ala Gly Asp Gly Leu Lys Ala Pro Val His Ala Trp Asp 35 40 45

Ser Ala Gln Gly Pro Cys Ser Cys Leu Gly Gln Ala Pro Gly Pro Pro 50 60

Leu Ala Ala Val Ser Ser Gly Gln Gly Gly Gly Gly Arg Tyr Gly His 65 70 75 80

Ser Val Gly Arg Ser Trp Glu Asn Lys Ala Tyr Tyr Trp Thr Pro Gly 85 90 95

Gly His Gly Asn His Thr Arg Met Pro Glu Thr Glu Asn Leu Trp Ala 100 \$105\$

Ser Arg Ser Ser Ser Ser Cys Thr Gly

<210> 174

<211> 25

<212> PRT

<213> Homo sapien

<400> 174

Met Gly Asn Tyr Ala Asn Asn Lys Lys Arg Thr Leu Arg Ser Ile Asn 10 Thr Val His Lys Tyr Gly Gly Leu Phe 20 <210> 175 <211> 33 <212> PRT <213> Homo sapien <400> 175 Met Pro Ser Phe Arg Ile Leu Asp Thr Cys Cys Phe Ser Pro Ser His Glu Thr Phe Cys Lys Asn Lys Glu Arg Gly Ile Thr Val Cys His His Ser <210> 176 <211> 30 <212> PRT <213> Homo sapien <220> <221> MISC_FEATURE <222> (7)..(7) <223> X=any amino acid <220> <221> MISC_FEATURE <222> (11)..(11) <223> X=any amino acid <400> 176 Met Ile Phe Pro Val Lys Xaa Leu Ile Arg Xaa Ile Pro Arg Asn Leu . 5 10

Leu Tyr Ile Met Asp Phe Asp Ile Tyr Leu Val Lys Val Lys

<210> 177

<211> 42 <212> PRT

<213> Homo sapien

<400> 177

Met Val Ala Ser Val Met Glu Ser Ala Asp Leu Glu Glu Gln Thr Gln 1 5 10 15

Leu Val Thr Glu Leu Pro Gly Gly Arg Leu Ser Leu Gly Met Glu Gly 20 25 30

Tyr Arg Asn Phe Arg Val Leu Gln Asn Phe 35 40

<210> 178

<211> 80

<212> PRT

<213> Homo sapien

<400> 178

Met Tyr Phe Pro Pro Ala Phe Phe Phe Pro Phe Glu Tyr Val Ser Leu 1 $$ 5 $$ 10 $$ 15

Asn Leu Phe Ser Lys Ser Ala Arg Leu Ala Leu Ser Ser His Phe Leu 20 25 30

Ser Leu Ser Ser Ser Tyr Leu Ser Val Phe Phe Leu Leu Val Leu Leu 35 40 45

Phe Leu Tyr Phe Ser Pro Ser Leu His Ile His His His Lys Gln Thr 50 55 60

Tyr Thr Phe Gln Lys Leu Val Pro Phe Trp Pro Pro Phe Asn Asn Arg 65 70 75 80

<210> 179

<211> 40

<212> PRT

<213> Homo sapien

<400> 179

Met Arg Val Trp Asp Pro Phe Leu Thr Leu Ile Leu Ile Lys Gln Gln 1 5 10 15

Ile Phe Ile Ile Asn Glu Ile Tyr Asn Tyr Val Asn Leu Ile Asp Ile
20 25 30

Gly Ile Val Ser Arg Ile Phe Ile 35 40

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<210> 180
<211> 82
<212> PRT
<213> Homo sapien
<400> 180
Met Arg Tyr Thr Arg Gly Arg Arg Pro Lys Arg Arg Tyr Ile Gly His
Leu Pro Val Phe Phe Gln Val His Phe Leu Pro Phe Ser Ala Leu Cys
                                  25
Tyr Asn Ser Glu Thr Asn Ile Phe Gln Leu Ser Cys Phe Leu Asp Phe
                             40
Lys Lys Ala Ser Glu Arg His Cys Gly Lys Pro Lys Gly Pro Met Trp
Lys Gln Ala Thr Phe His Leu Leu Arg Leu Ser Ala Ser Ser Ser Ile
                     70
Cys Ser
<210> 181
<211> 23
<212> PRT
<213> Homo sapien
<400> 181
Met Asp Val Ile Asp Val Pro Lys Glu Ser Val Leu Asn Leu Ile Gln
Ser Pro Gly Ser Ser Cys Leu
            20
<210> 182
<211> 95
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<212> PRT

<213> Homo sapien

<400> 182

Met Arg Ser Ala Glu Lys Glu Arg Glu Glu Asn Thr Asn Lys Ser Leu

Ser Ser Leu Ser Pro Val Ser Phe Pro Gln His Val Lys Gly Pro Gly 25

Pro Lys Phe Pro Leu Pro Cys Val Leu Glu Ala Leu Leu Leu Phe Asn 35 40

Leu Asp Thr Leu Lys Arg Glu Ala Gln Asn Thr Val Thr Val Leu Asn

Ser Lys Pro Cys His Val Thr Ser Leu His Thr Gly Leu Ala Glu Thr 70

Ser Val Gly Lys Gly Ala Ala Glu Asn Ser Val Lys Arg Lys Gln 90 85

<210> 183

<211> 31

<212> PRT

<213> Homo sapien

<400> 183

Met Arg Asn Leu Met Trp Gly Ile Arg Glu Arg Ile Lys Ser Asp Phe . 5 10 15

Arg Val Phe Gly Val Ser Ile Trp Lys Ser Glu Val Ala Ile His 20 25

<210> 184 <211> 54 <212> PRT

<213> Homo sapien

<400> 184

Met Ser Phe Pro Thr Lys Gln Phe Gly Val Thr Thr Val Ile Pro Val 5 10

Ser Tyr Gly Trp Gly Leu Cys Ile Gly Met Cys Thr Leu Lys Phe Ile 20 25 30

His Leu Phe Ser Thr Ile Leu Phe Glu His Leu Leu Ser Val Arg Ala

Leu Ser Val Val Arg Tyr 50

<210> 185

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<211> 13
<212> PRT
<213> Homo sapien
<400> 185
Met Lys Arg Glu Leu Ser Ile Leu Ile Lys Ser Lys Gly
1 5
                                   10
<210> 186
<211> 51
<212> PRT
<213> Homo sapien
<400> 186
Lys Ile Gln Ala Lys Gln Ile Lys Lys Arg Ile Gln Arg Ile Ile His
                                   10
His Asp Gln Val Gly Phe Ile Pro Gly Ile Gln Gly Trp Phe Asn Ile
Ala Lys Ser Ile Asp Glu Thr His Lys Ile Glu Arg Ile Lys Met Arg
Ser Leu Met
   50
<210> 187
<211> 14
<212> PRT
<213> Homo sapien
<400> 187
Met Lys Gly Ser Tyr Leu Ile Pro Asn Phe Leu Leu Glu Pro
<210> 188
<211> 56
<212> PRT
<213> Homo sapien
<400> 188
Met Asp Val Ser Ala Cys Gly Arg Leu Tyr Phe Ser Lys Met Thr Thr
Lys Ile Ser Pro Ile Ser Cys Val Ile Leu Gln Trp Gly Leu Cys Pro
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25

Leu Phe Leu Asn Val Cys Ala Leu Val Thr Ala Leu Thr Asn Arg Val 40

Trp Gly Arg Met Pro Cys Asp Phe 50 55

<210> 189

<211> 29

<212> PRT

<213> Homo sapien

<400> 189

Met Ala Leu Lys Arg Ile Val Ser His Ser Thr Arg Glu Gly Gly Thr

His Leu Glu Arg Cys His Arg Thr Pro Ile Pro Ser Gly

<210> 190

<211> 34

<212> PRT <213> Homo sapien

<400> 190

Met Thr Lys Pro Pro Ile Leu Thr Pro Trp Ser Leu Leu Ser Arg Ser

Pro Leu Cys Ser Phe Gln Ser His Glu Glu Gly Glu Gly Arg Pro Arg

Gln Gly

<210> 191

<211> 42

<212> PRT

<213> Homo sapien

<400> 191

Met Pro Glu Ala Leu Pro Gly Pro Gly Arg Ile Lys Ser Leu Thr Val 10

Trp Gly Leu Val Trp Pro Phe Thr His Ile Thr Leu Gln Asn Thr Phe 25

Gln Gly Asp Ile Ser Val Ser Ser Ile Leu 35 40

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<210> 192
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<211> 59 <212> PRT <213> Homo sapien

<400> 192

Met Val Gly His Lys Cys Leu Phe Asn Phe Asp Leu Leu Ala Phe Ser

Ile Gln Ala Val Thr Leu Pro His Lys Thr Leu Gly Ala Leu Ala Arg

Gly Asp Cys Thr Ser Ser Pro Gln Met Phe Ser Lys Leu Pro Gly 4 0

Thr Leu Leu Gly Tyr Thr Lys Ser Arg Gln

<210> 193 <211> 87 <212> PRT

<213> Homo sapien

<400> 193

Arg Gln Cys Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Thr Ile

Ala Ala His Cys Asn Pro Arg Leu Pro Gly Ser Ser Asp Ser Tyr Ala

Ser Ala Ser Arg Ala Ala Gly Ile Thr Asp Ala His Gln Asp Thr Gln

Pro Ile Phe Val Phe Leu Val Glu Met Gly Leu His His Val Cys Gln

Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Leu Pro Thr Leu Ala Ser 75 70

Gln Val Leu Gly Leu Gln Ala 85

<210> 194 <211> 117 <212> PRT

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103
<213> Homo sapien
<220>
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<222> (34)..(72)
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<222> (102)..(102)
<223> X=any amino acid
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<221> MISC_FEATURE
<222> (113)..(113)
<223> X=any amino acid
<400> 194
Met Gly Lys Ala Leu Phe Cys Gly Leu Trp Pro Leu Lys Ser Ile Cys
Leu Leu Leu Ser Gln Gly Ser Asp Ala Ala Leu Thr Ile Leu Leu
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Val Lys Cys Thr Glu Ala Cys
                70
Ile Phe Glu Thr Ser Lys Gly Arg Arg Leu Arg Arg Ser Pro Leu Gln
                              90
Gly, His Leu His Leu Xaa Tyr Val Ala Phe Pro Ser Asn Asn Glu Ala
Xaa His Trp Val Leu
      115
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<210> 195

<211> 47

<212> PRT

<213> Homo sapien

<400> 195

Met Trp Val Ala Val Pro Asp Phe Pro Leu Leu Pro Ala Val Gly Asp 1 5

Glu Leu Leu Ala Leu Gly Pro Asp Phe Pro Gly Trp Pro Leu Arg Ser 20 25

Arg Gly Phe Lys Phe Ser Trp Ser Cys Ser Val Leu Val Gln His 40

<210> 196

<211> 34 <212> PRT <213> Homo sapien

<400> 196

Met Phe Ser Leu Thr Pro Leu Glu Lys Ser Pro Ser Trp Leu Leu Ser 1 5 10 15

Gln His Cys Pro Leu Val Ala Cys Ser Pro Trp Cys Phe Leu Ala Val 25

Ala Thr

<210> 197

<211> 51

<212> PRT <213> Homo sapien

<400> 197

Met Pro Phe Pro Trp Gly Gly Leu Pro Ser Leu Ser Asn Ser Ser Leu

Cys Trp Ser Ser Leu Pro Cys His Ser Thr Leu Ser Phe His Ser Val 20 25

Cys Trp Tyr Cys Lys Tyr Leu Ile Leu Cys Ile Cys Ser Leu Ser Ala 35 40

Ser Ser Gln 50

<210> 198

<211> 286 <212> PRT

<213> Homo sapien

<400> 198

Asn Phe Leu Glu Thr Asp Asn Glu Gly Asn Gly Ile Leu Arg Arg 1 5 10 15

Asp Ile Lys Asn Ala Leu Tyr Gly Phe Asp Ile Pro Leu Thr Pro Arg 20 25 30

Glu Phe Glu Lys Leu Trp Ala Arg Tyr Asp Thr Glu Gly Lys Gly His
35 40 45

Ile Thr Tyr Gln Glu Phe Leu Gln Lys Leu Gly Ile Asn Tyr Ser Pro 50 55 60

Ala Val His Arg Pro Cys Ala Glu Asp Tyr Phe Asn Phe Met Gly His 65 70 75 80

Phe Thr Lys Pro Gln Gln Leu Gln Glu Glu Met Lys Glu Leu Gln Gln 85 90 95

Ser Thr Glu Lys Ala Val Ala Ala Arg Asp Lys Leu Met Asp Arg His
100 105 110

Gln Asp Ile Ser Lys Ala Phe Thr Lys Thr Asp Gln Ser Lys Thr Asn 115 120 125

Tyr Ile Ser Ile Cys Lys Met Gln Glu Val Leu Glu Glu Cys Gly Cys 130 135 140

Ser Leu Thr Glu Gly Glu Leu Thr His Leu Leu Asn Ser Trp Gly Val 145 150 155 160

Ser Arg His Asp Asn Ala Ile Asn Tyr Leu Asp Phe Leu Arg Ala Val 165 170 175

Glu Asn Ser Lys Ser Thr Gly Ala Gln Pro Lys Glu Lys Glu Glu Ser 180 185 190

Met Pro Ile Asn Phe Ala Thr Leu Asn Pro Gln Glu Ala Val Arg Lys 195 200 205

Ile Gln Glu Val Val Glu Ser Ser Gln Leu Ala Leu Ser Thr Ala Phe 210 215 220

Ser Ala Leu Asp Lys Glu Asp Thr Gly Phe Val Lys Ala Thr Glu Phe 225 230 235 240

Gly Gln Val Leu Lys Asp Phe Cys Tyr Lys Leu Thr Asp Asn Gln Tyr 245 250 255

His Tyr Phe Leu Arg Lys Leu Arg Ile His Leu Thr Pro Tyr Ile Asn 260 265 270

Trp Lys Tyr Phe Leu Gln Asn Phe Ser Cys Phe Leu Glu Glu 275 280 285

<210> 199

<211> 64

<212> PRT

<213> Homo sapien

<400> 199

Met Ser Gln Gln Gly Phe Phe Arg Leu Phe Gly Ile Tyr Ser Leu Pro 1 $$ 5 $$ 10 $$ 15

Ala Arg Pro Val Asn Ser Ser Arg Phe Ser Val Ser Phe Gln Ile Gly 20 25 30

Thr Thr Arg Asn His Gln Leu Leu Ser Tyr Thr Leu Asp Met Leu His
35 40 45

His Phe Asp Val Val Gly Phe Asp Tyr Tyr Lys Ile Asp Pro Asn Tyr 50 55 60

<210> 200

<211> 35

<212> PRT

<213> Homo sapien

<400> 200

Met Asn Lys Ile Ser Cys Phe Asn Glu Ala Asn Met Thr Ile Gln Gln 1 5 10 15

Cys Gly Phe Gly Ile Arg Lys Ile Leu Lys Ile Leu Ile Val Ser Phe 20 25 30

Ser Leu Pro

35

10

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<210> 201
<211> 66
<212> PRT
<213> Homo sapien
<400> 201
Met Ser Leu Ile Leu Thr Phe His Leu Leu Thr Arg Gln Ala Leu
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Ser Pro Leu Thr Trp Ile Thr Glu Leu Thr Ser Glu Leu Gln Val Val

Ala Ser Ser Gly Pro Val Pro Ser Val Leu Phe Leu Pro Ala Arg Ile

Thr Cys Arg Ala Asp Arg Leu Phe Ala His Gly Leu His Lys Ala Ser

Arg Ala 65

<210> 202 <211> 27 <212> PRT <213> Homo sapien <220> <221> MISC_FEATURE <222> (16)..(16) <223> X=any amino acid <220> <221> MISC_FEATURE <222> (20)..(20) <223> X=any amino acid

<400> 202

Met Tyr Ala Thr Lys Lys His Val Ser Met Cys Val Asn Leu Lys Xaa 5

Ile Asn Gly Xaa Phe Trp Glu Val Phe Arg Ser 20

<210> 203 <211> 47 <212> PRT <213> Homo sapien

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<400> 203
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Met Pro Cys Leu Phe Ser Thr Ser Thr Phe Asn Phe Leu Thr Lys Ile

Lys Cys Tyr Val Phe Ser Lys Ala Asp Leu Leu Pro Ser Ser Leu Ser 25 20

Phe Gly Ser Ser His Tyr Gln His Ser His Pro Pro Thr Leu Lys 40

<210> 204 <211> 19 <212> PRT <213> Homo sapien

<400> 204

Met His Gln Ser Val Ser Leu Arg Thr Ala Trp Ala Arg His Gly Trp 1 5 10 . 15

Ser Arg Leu

<210> 205

<211> 22

<212> PRT

<213> Homo sapien

<400> 205

Met Lys Ile Gln Gly Lys Asn Ile Tyr Asn Thr Thr Met Leu Lys Asp 10

Pro Phe Phe Tyr Leu Thr 20

<210> 206 <211> 29 <212> PRT <213> Homo sapien

<400> 206

Met Lys Phe His Ser Asp Pro Ser Cys Val Pro Ser Ile Gln Ile Asn

Lys Arg Asp Tyr Arg Arg Gly Pro Leu Arg Leu Ala Asn

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109
<210> 207
<211> 21
<212> PRT
<213> Homo sapien
<400> 207
Met Leu Pro Pro Tyr Leu Pro Lys Leu Leu Gln Phe Val Phe Leu
                                   10
Pro Val Ile Tyr Lys
           20
<210> 208
<211> 29
<212> PRT
<213> Homo sapien
<400> 208
Met Arg Asn Val Gln Arg Lys Phe Tyr Asn Lys Arg Val Gln Gln Gly
Cys Lys Ile Lys Asp Lys His Ile Asn Ser Ser Cys Ile
<210> 209
<211> 42
<212> PRT
<213> Homo sapien
<400> 209
Met Glu Leu Pro Leu Phe Ser Leu Ser Cys Ser Tyr Lys Pro Cys Ala
                                    10
Phe Phe Asp His Ser Thr Ala Thr Ala Ala Leu Val Met Pro Phe Leu
                                25
Ile Ile Pro Gly Ser His Thr Thr Arg Pro
<210> 210
<211> 18
<212> PRT
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Met Gly Tyr Leu Gly Leu Gly Met Ala Ala Gly Phe Lys Glu Arg Val

<213> Homo sapien

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<400> 210

Val Glu

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<210> 211
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<211> 70

<212> PRT

<213> Homo sapien

<400> 211

Met Glu Leu Leu Gly Ser Asp Arg Ser Pro Val Ser Phe Leu Ile His

Trp Leu Pro Thr Arg Leu Pro His Gly Val Ser Leu Gly Ser Arg Leu 25

Ser Ile Leu Ser Thr Phe Thr Tyr Val Asp Trp Leu Ala Glu Val Ser

Thr Leu Gly Leu Asp Trp Lys Ile Leu Gln Thr Lys Lys Ala Arg Asp

Ser Val Pro Pro Thr Ser

<210> 212

<211> 44

<212> PRT

<213> Homo sapien

<400> 212

Met Ala Asp Phe Asn Trp Met Leu Tyr Leu Gly Phe Ser Lys Ala Lys

Lys Val Tyr Thr Leu Leu Gln Leu Gly Val Gly Leu Gln Ala Val Cys 25

Tyr Ile His Val Leu Val Pro Val Ile Leu Thr Phe 40

<210> 213

<211> 71

<212> PRT

<213> Homo sapien

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<223> X=any amino acid

<220>

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<400> 213

Met Cys Xaa Leu Gln Thr Val Tyr Ser Trp Thr Leu Leu Xaa Tyr Phe

Asn Pro Ser Asp Asn Leu Cys Ile Leu Ile Arg Phe Leu Asn Pro Phe

Thr Phe Asn Val Met Phe Asp Ile Ser Trp Ile Tyr Ser Cys His Phe 40

Thr Phe Gly Leu Leu Cys Leu Met Tyr Phe Ser Val Leu Leu Phe Leu 55

Pro Tyr Cys Phe Leu Leu His 65

<210> 214

<211> 22

<212> PRT

<213> Homo sapien

<400> 214

Met Thr Arg Ile Cys Cys Lys Ile His Phe Leu Lys Cys Leu Lys Lys 10

Glu Met Glu Ile Ser Ser 20

<210> 215 <211> 55 <212> PRT

<213> Homo sapien

<400> 215

Met Phe Ser Met Leu Arg Tyr Cys Tyr Gln Cys Pro Leu Pro Leu Lys

Met Thr Ala Glu Ser Lys His Phe Pro Glu Asn Ser Tyr Thr Gln Ile 20 25

Phe Val Pro Leu Phe Phe Tyr Thr Ala Pro Cys Leu Phe Ile Ser Val 40

His Ser Ser Tyr His Met Leu 50

<210> 216

<211> 49

<212> PRT

<213> Homo sapien

<400> 216

Met Pro Ser Ala Phe Glu Asn Asp Cys Arg Ile Gln Thr Phe Ser Arg 10

Lys Leu Leu Tyr Ile Asp Leu Cys Ser Phe Ile Leu Leu His Ser Thr 20 25

Leu Phe Val His Lys Cys Ser Gln Leu Ile Ser His Val Val Ile Met 40

Cys

<210> 217

<211> 62 <212> PRT <213> Homo sapien

<400> 217

Met Glu Arg Cys Ala Gly Ser Glu Pro Ala Arg Lys Glu Asn Ile Ser

Arg Leu Phe Cys Arg Met Gln Asn Trp Val Tyr Leu Gln Thr Asp Val 20 25

Leu Pro Ser Lys Gly Leu Ala Thr Thr Phe Asp Pro Gln Ser Lys Val 35 40

Asn Thr Ala Ile His Cys Ser Gln Thr Arg Val His Leu Pro 50 55

<210> 218 <211> 29 <212> PRT

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<213> Homo sapien
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<400> 218

Met Thr Thr Ser Ser Arg Thr Ile Ile Gly Lys Ile Gln Asp Leu Ser 5 10

Val Leu Ser Thr Val Ser Gln Ile Ser Asp Arg Pro Arg 20

<210> 219

<211> 28 <212> PRT <213> Homo sapien

<400> 219

Met Gly Phe Tyr His Lys Gly Met Ser Glu Thr Phe Ile Cys Ala Gly

Thr Ser Ala Gln Ser Leu Asn Ala Val Ser Glu Cys 20

<210> 220 <211> 56

<212> PRT

<213> Homo sapien

<400> 220

Met Phe Ala Ser Glu Phe Phe Phe Leu Val Ile Cys Leu Val Trp Asp

His Val Ala Phe Phe Ser Leu Thr Arg Val Ile Lys Val His Thr Val 25

Lys Ser Met Arg Ser Lys Ala Leu Arg Arg Arg Leu Leu Ser Val Asn

Val Met Ala Gly Ala Ile Arg Leu 50

<210> 221

<211> 97

<212> PRT

<213> Homo sapien

<400> 221

Arg Ala Arg Ala Glu Ala Ala Arg Ala Arg Gly Glu Val Cys Phe His

Cys Arg Lys Pro Gly His Gly Ile Ala Asp Cys Pro Ala Ala Leu Glu

Asn Gln Asp Met Gly Thr Gly Ile Cys Tyr Arg Cys Gly Ser Thr Glu 35 40 45

His Glu Ile Thr Lys Cys Lys Ala Lys Val Asp Pro Ala Leu Gly Glu 55

Phe Pro Phe Ala Lys Cys Phe Val Cys Gly Glu Met Gly His Leu Ser

Arg Ser Cys Pro Asp Asn Pro Lys Gly Leu Tyr Ala Asp Gly Lys Tyr 90

Cys

<210> 222

<211> 36

<212> PRT

<213> Homo sapien

<220>

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<222> (30)..(30)

<223> X=any amino acid

<220>

<221> MISC FEATURE

<222> (33)..(33)

<223> X=any amino acid

<400> 222

Met Ser Glu Ala Ser Leu Ser Leu Lys Glu Gln Lys Phe Cys His Pro

Val Val Leu Tyr Asn Leu Glu Asn Pro Leu Asn Leu Thr Xaa Leu Gln 25 20 30

Xaa Tyr Leu Leu 35

<210> 223 <211> 65

<212> PRT

<213> Homo sapien

<400> 223

Gln Pro Cys Gly Cys Ala Leu Gly Phe Thr Ser Gln Thr Ser Val Ala 20 25 30

Phe Ala Arg Arg Lys Asp Ser Gln Gly Leu His Ile Cys Cys Pro Gln 35 40 45

Phe Cys Pro Phe Ser Asn Lys Ser His Thr Ser Asn Leu Leu Val Ala 50 55 60

His 65

<210> 224

<211> 804

<212> PRT

<213> Homo sapien

<400> 224

Ala Lys Pro Leu Thr Asp Gln Glu Lys Arg Arg Gln Ile Ser Ile Arg 1 5 10 15

Gly Ile Val Gly Val Glu Asn Val Ala Glu Leu Lys Lys Ser Phe Asn 20 25 30

Arg His Leu His Phe Thr Leu Val Lys Asp Arg Asn Val Ala Thr Thr 35 40 45

Arg Asp Tyr Tyr Phe Ala Leu Ala His Thr Val Arg Asp His Leu Val 50 55 60

Gly Arg Trp Ile Arg Thr Gln Gln His Tyr Tyr Asp Lys Cys Pro Lys 65 70 75 80

Arg Val Tyr Tyr Leu Ser Leu Glu Phe Tyr Met Gly Arg Thr Leu Gln 85 90 95

Asn Thr Met Ile Asn Leu Gly Leu Gln Asn Ala Cys Asp Glu Ala Ile 100 105 110 Tyr Gln Leu Gly Leu Asp Ile Glu Glu Leu Glu Glu Ile Glu Glu Asp 115 120 125

Ala Gly Leu Gly Asn Gly Gly Leu Gly Arg Leu Ala Ala Cys Phe Leu 130 135 140

Tyr Glu Tyr Gly Ile Phe Asn Gln Lys Ile Arg Asp Gly Trp Gln Val 165 170 175

Glu Glu Ala Asp Asp Trp Leu Arg Tyr Gly Asn Pro Trp Glu Lys Ser 180 185 190

Arg Pro Glu Phe Met Leu Pro Val His Phe Tyr Gly Lys Val Glu His
195 200 205

Thr Asn Thr Gly Thr Lys Trp Ile Asp Thr Gln Val Val Leu Ala Leu 210 215 220

Pro Tyr Asp Thr Pro Val Pro Gly Tyr Met Asn Asn Thr Val Asn Thr 225 230 235 240

Met Arg Leu Trp Ser Ala Arg Ala Pro Asn Asp Phe Asn Leu Arg Asp 245 250 255

Phe Asn Val Gly Asp Tyr Ile Gln Ala Val Leu Asp Arg Asn Leu Ala 260 265 270

Glu Asn Ile Ser Arg Val Leu Tyr Pro Asn Asp Asn Val Ala Ile Gln 275 280 285

Leu Asn Asp Thr His Pro Ala Leu Ala Ile Pro Glu Leu Met Arg Ile 290 295 300

Phe Val Asp Ile Glu Lys Leu Pro Trp Ser Lys Ala Trp Glu Leu Thr 305 310 315 320

Gln Lys Thr Phe Ala Tyr Thr Asn His Thr Val Leu Pro Glu Ala Leu 325 330 335

Glu Arg Trp Pro Val Asp Leu Val Glu Lys Leu Leu Pro Arg His Leu 340 345 350

Glu Ile Ile Tyr Glu Ile Asn Gln Lys His Leu Asp Arg Ile Val Ala 355 \$360\$

Leu Phe Pro Lys Asp Val Asp Arg Leu Arg Arg Met Ser Leu Ile Glu 370 375 380

Glu Glu Gly Ser Lys Arg Ile Asn Met Ala His Leu Cys Ile Val Gly 385 390 395 400

Ser His Ala Val Asn Gly Val Ala Lys Ile His Ser Asp Ile Val Lys 405 410 415

Thr Lys Val Phe Lys Asp Phe Ser Glu Leu Glu Pro Asp Lys Phe Gln 420 425 430

Asn Lys Thr Asn Gly Ile Thr Pro Arg Arg Trp Leu Leu Cys Asn 435 440 445

Pro Gly Leu Ala Glu Leu Ile Ala Glu Lys Ile Gly Glu Asp Tyr Val 450 455 460

Lys Asp Leu Ser Gln Leu Thr Lys Leu His Ser Phe Leu Gly Asp Asp 465 470 475 480

Val Phe Leu Arg Glu Leu Ala Lys Val Lys Gln Glu Asn Lys Leu Lys 485 490 495

Phe Ser Gln Phe Leu Glu Thr Glu Tyr Lys Val Lys Ile Asn Pro Ser 500 505 510

Ser Met Phe Asp Val Gln Val Lys Arg Ile His Glu Tyr Lys Arg Gln 515 520 525

Leu Leu Asn Cys Leu His Val Ile Thr Met Tyr Asn Arg Ile Lys Lys 530 540

Asp Pro Lys Lys Leu Phe Val Pro Arg Thr Val Ile Ile Gly Gly Lys 545 550 555 560

Ala Ala Pro Gly Tyr His Met Ala Lys Met Ile Ile Lys Leu Ile Thr 565 570 575

Ser Val Ala Asp Val Val Asn Asn Asp Pro Met Val Gly Ser Lys Leu

580 585 590

Lys Val Ile Phe Leu Glu Asn Tyr Arg Val Ser Leu Ala Glu Lys Val 600 Ile Pro Ala Thr Asp Leu Ser Glu Gln Ile Ser Thr Ala Gly Thr Glu 615 620 Ala Ser Gly Thr Gly Asn Met Lys Phe Met Leu Asn Gly Ala Leu Thr 630 635 Ile Gly Thr Met Asp Gly Ala Asn Val Glu Met Ala Glu Glu Ala Gly Glu Glu Asn Leu Phe Ile Phe Gly Met Arg Ile Asp Asp Val Ala Ala 665 Leu Asp Lys Lys Gly Tyr Glu Ala Lys Glu Tyr Tyr Glu Ala Leu Pro Glu Leu Lys Leu Val Ile Asp Gln Ile Asp Asn Gly Phe Phe Ser Pro 690 695 700 Lys Gln Pro Asp Leu Phe Lys Asp Ile Ile Asn Met Leu Phe Tyr His 705 710 715 Asp Arg Phe Lys Val Phe Ala Asp Tyr Glu Ala Tyr Val Lys Cys Gln 725 730 Asp Lys Val Ser Gln Leu Tyr Met Asn Pro Lys Ala Trp Asn Thr Met 745 Val Leu Lys Asn Ile Ala Ala Ser Gly Lys Phe Ser Ser Asp Arg Thr Ile Lys Glu Tyr Ala Gln Asn Ile Trp Asn Val Glu Pro Ser Asp Leu 770 775 780 Lys Ile Ser Leu Ser Asn Glu Ser Asn Lys Val Asn Gly Asn Asn Lys 785 790 795

Val Asn Gly Asn

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119
<210> 225
<211> 60
<212> PRT
<213> Homo sapien
<400> 225
Met Gly Asp Leu Tyr Lys Lys Glu Leu Lys Lys Arg Arg Asn Val Ile
Ser Met Leu Leu Gln Val Lys Gly Lys Gln Glu Asp Lys Tyr His Lys
Lys Thr Lys Met Tyr Leu Thr Phe Trp Asp Lys Ile Val Gly Ser Thr
Glu Asn Trp Asn Leu Glu Leu Pro Val Pro Gln Arg
                       55
<210> 226
<211> 46
<212> PRT
<213> Homo sapien
<400> 226
Met Phe Tyr Glu Tyr Lys Glu Tyr Asn Glu Cys Tyr Tyr Lys Tyr Ile
                                    10
His Ala Asn Arg Asp Phe Gln Tyr Pro Thr Phe Ser Gln Phe Arg Leu
Pro Glu Ile Gly Leu Leu Gly Gln Arg Leu Gln Thr Tyr Phe
                            40
<210> 227
<211> 13
<212> PRT
<213> Homo sapien
<400> 227
Met Arg Arg Trp Tyr Ile Trp Glu Val Ser Arg Gly Tyr
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<210> 228 <211> 27

<212> PRT

<213> Homo sapien

<400> 228

Met Phe Leu Arg Tyr Leu Gly Lys Ser Ser Glu Pro Cys Val Ala Asn 1 5 10 15

Gly Asn Ala Val Val Gln Trp Gly Leu Leu Gly 20 25

<210> 229

<211> 45

<212> PRT

<213> Homo sapien

<400> 229

Met Ala Thr Asn Ser Cys Leu Tyr Ser Thr His Lys Gln Phe Gln Tyr 1 5 10 15

Met Phe Cys Asp Arg Ser Pro Lys Ile Ser Ser Phe Met Val Pro Gly 20 25 30

Arg Thr Glu Asn Ser Arg Met Gln Leu Leu Lys Leu Phe 35 . 40 45

<210> 230

<211> 96

<212> PRT

<213> Homo sapien

<400> 230

Lys Arg Gln Gly Leu Ala Leu Ser Pro Arg Leu Glu Tyr Asn Asp Val 1 5 10 15

Ile Ile Ala His Arg Asn Phe Glu Leu Pro Gly Ser Ser Asn Pro Ser 20 25 30

Ala Ser Ala Ser Gln Glu Leu Gly Leu Gln Thr Cys Ala Thr Thr Ser 35 40 45

Ser Phe Phe Ile Phe Cys Arg Gly Arg Val Ser Leu Cys Cys Pro Gly 50 55 60

Gly Val Ser His Ser Thr Ser Ser Asn Pro Thr Ala Ser Ala Ser Gln 65 70 75 80

Arg Ala Arg Ile Thr Gly Leu Ser His Cys Thr Gln Pro Lys Ala Leu 85 90 95 <210> 231

<211> 56

<212> PRT

<213> Homo sapien

<400> 231

Met Leu Ala Leu Ser His Trp Thr Val Val Pro Ser His Pro Leu Ser 10

Pro Ser Leu Asp His Glu His Ser Arg Ala Arg Thr Thr Ser Val Leu

Phe Thr Ala Val His Pro Ala Leu Thr Gln Cys Leu Met His Ala Leu

Gly Ala Gln Glu Val Leu Ile Gln

<210> 232

<211> 34 <212> PRT <213> Homo sapien

<400> 232

Met Asp Ser Pro Lys Arg Val Ser Ser Asp Leu Ser Leu Leu Arg Asn

Lys Ile Leu Asp Ser Gly Cys Val Cys Phe Arg Cys Cys Gly Thr Gly 25

Trp Phe

<210> 233

<211> 34

<212> PRT

<213> Homo sapien

<400> 233

Met Leu Ser Ala Phe Phe Thr Leu Ile Leu Ser Pro Val Tyr Arg Arg 10

Val Phe Gln Arg Leu His Met Arg Tyr Leu Asn Lys Leu Lys Ala Glu 20 25

Glu Ile

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<210> 234
<211> 35
<212> PRT
<213> Homo sapien
<400> 234
Met Cys Phe Glu Thr Gly Glu Tyr Ser Trp Ser Gly Ala Gly Ala Gln
Asn Thr Arg Phe Leu Cys Ser Asp Asn Leu Cys Ser Leu Ala Leu Leu
                                25
Leu Ile Tyr
       35
<210> 235
<211> 40
<212> PRT
<213> Homo sapien
<400> 235
Met Ile Asn Glu Gln Met Asn Ile Ser Glu Lys Leu Val Tyr Ile Ile
                                     10
Met Asn Arg Leu Val Leu His Phe Tyr Lys Asn Arg Lys Leu Lys Ile
                                25
Lys Lys Lys Ile Leu Pro Lys Lys
<210> 236
<211> 60
<212> PRT
<213> Homo sapien
<400> 236
Met Tyr Lys Cys Leu Leu Glu Ala His Glu Val Tyr Arg Trp Phe Leu
                5
                                     10
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Thr Thr Phe Ser Leu Arg Ser Thr Gly Ile Trp Leu Arg Phe His Ser 35 40 45

Pro Gln Tyr Leu Thr Ile Val Lys Phe Gln Ala Met Pro Leu Leu Ser

Asp Asp Leu Leu Ser Glu Thr Leu Arg Leu Glu Lys 50 55 <210> 237 <211> 36 <212> PRT <213> Homo sapien <400> 237 Met Ser Leu Tyr Leu Phe Ser Pro Phe His Cys Pro Phe Phe Pro His Leu Pro Leu Cys Ser Val Leu Ser Leu Ala Ser Ser Cys Gln Tyr Val Asp Phe Cys 35

<210> 238

<211> 66

<212> PRT

<213> Homo sapien

<400> 238

Met Phe Phe Tyr Leu Ser Lys Thr Leu Pro Met Phe Leu Leu Lys His 10

His Ser Tyr Ser Lys Thr Lys Val Asn Glu Asn Leu Tyr Gln Asp Asp

Cys Pro Gln Ser Ser Gly Trp Thr Thr Cys Leu Ser Ser Ile Ile Leu 40

Cys Ile Ile Ser Leu Ile His Ser Asn Ser Leu Cys Ile Ile Cys Ala

Ser Gly

<210> 239

<211> 31

<212> PRT

<213> Homo sapien

<400> 239

Met Cys His Gly Phe Val Thr Pro Tyr Tyr Tyr Tyr Leu Ser Leu Ala

Ser Cys Tyr Cys Pro Tyr Leu Thr Thr Ile Thr Ser Met Ser Ser 20

<210> 240 <211> 44

<212> PRT

<213> Homo sapien

<400> 240

Met Asn Asn Ile Ile Pro Leu Leu Ile Leu Met Gly Leu Phe Phe Leu

Ser Gln Ser Ala Leu Ile His Ile Gly Ser Leu Asn Ser Ser Asn Ile 25

Ile Lys Ser Phe Ser Pro Arg Asp Pro Thr Phe Arg